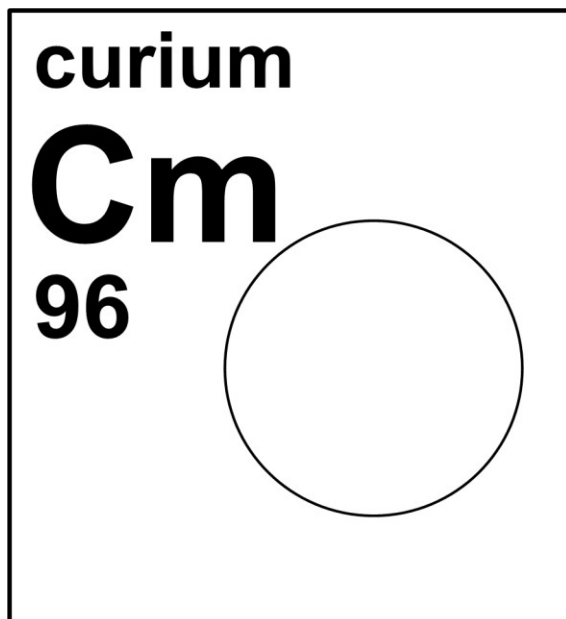





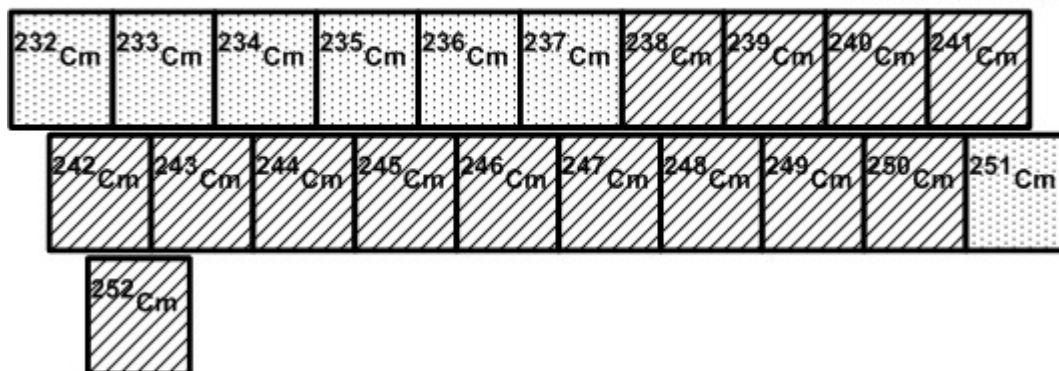
curium



Stable isotope	Atomic mass	Mole fraction
(none)		

Half-life of radioactive isotope

Less than 1 second 
 Between 1 second and 1 hour 
 Greater than 1 hour 



Important applications of stable and/or radioactive isotopes

Isotopes in industry

- 1) The Curium isotopes ²⁴⁴Cm and ²⁴²Cm are strong alpha emitters with a half-life in the months to years range and produce considerable heat during this process. These properties make them useful for applications as alpha particle source and as heat generator in radioisotope thermoelectric generators (RTG).
- 2) A ²⁴⁴Curium source is used for the Alpha particle X-ray spectrometer on board several American and European space missions, for example the Mars Exploration Rover and the Rosetta/Philae.

**Applications of curium isotopes are still being researched and this page will be updated shortly. **